**1.Given a non-empty array of integers nums, every element appears twice except for one. Find that single one.**

#include <iostream>

using namespace std;

#include<vector>

#include<map>

class Solution {

public:

int singleNumber(vector<int>& nums) {

map<int,int>mpp;

int c;

for(int i=0;i<nums.size();i++)

{

mpp[nums[i]]++;

}

for(auto it:mpp)

{

if(it.second==1)

{

c=it.first;

}

}

return c;

}

};

int main()

{

vector<int>nums={2,2,1,3,3,3};

Solution obj;

int n;

int result=obj.singleNumber(nums);

cout<<"The number that appears only once:"<<result;

return 0;

}